GV-GBL12811   AI 12MP H.265 4.3x Zoom Super Low Lux WDR IR Bullet IP Camera

12MP | Motorized | AI | Super Low Lux

IP67 | IK10

- AI deep learning: AI Perimeter Protection & Classification (Human, Vehicle)
- 1/1.7" progressive scan CMOS sensor
- Min. illumination at 0.006 lux
- Five streams from H.265, H.264 and MJPEG
- Up to 30 fps at 4000 x 3000
- Intelligent IR
- IR distance up to 70 m (230 ft)
- Day and Night function (with removable IR-cut filter)
- Two-way audio capable
- Built-in microphone
- Built-in microSD card slot (SD / SDHC / SDXC) for local storage
- Ingress protection (IP67)
- Vandal resistance (IK10 for metal casing)
- DC 12V / PoE (IEEE 802.3af)
- Defog
- 3D noise reduction
- AI analytics (Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Video Metadata, Loitering Detection, Illegal Parking, Face Detection)
- Motion detection
- Text overlay
- Privacy mask
- 19 languages supported
- ONVIF (Profile G, S, T, M) conformant

Introduction

GV-GBL12811 is a 12 MP outdoor bullet IP camera, equipped with an automatic IR-cut filter and IR LEDs for day and night surveillance. The camera supports H.265 video codec to achieve a better compression ratio while maintaining high-quality pictures at reduced network bandwidth. GV-GBL12811 adheres to IP67 and IK10 standards and can be powered through PoE.

Empowered by deep learning algorithms, its AI technology distinguishes humans and vehicles from other moving objects. Integrated with GeoVision Video Management Software (GV-VMS), it supports AI perimeter protection, real-time alert, playback, and more.
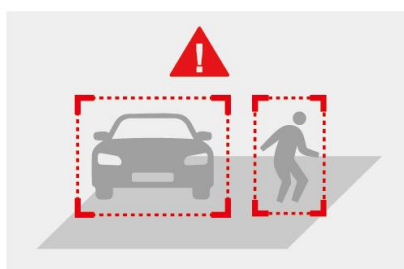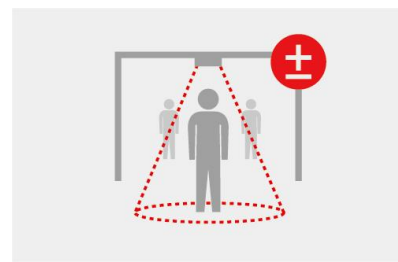
Deep Learning Function
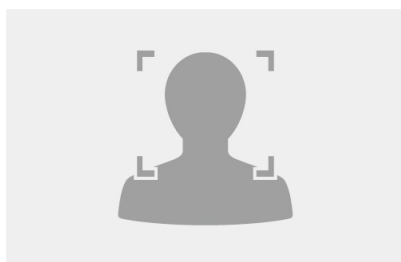
Face Detection	**AI Perimeter Protection** (Region Intrusion, Line Crossing, Region Entrance, Region Exiting)	**People Counting**

Specifications

Camera		
Image Sensor		1/1.7" progressive scan CMOS
Picture Elements		4000 (H) x 3000 (V)
Minimum Illumination	Color	0.006 Lux (F1.4, AGC ON)
	IR On	0 Lux
Shutter Speed		Automatic, Manual (1/3 ~ 1/100000 sec)
White Balance		Automatic, Manual
Gain Control		Automatic, Manual
S/N Ratio		50 dB
WDR Pro		No
Dynamic Range		75 dB

Lens		
Megapixel		12 MP
Day/Night		Yes (with removable IR-cut filter)
Focal Length		2.8-12 mm
Lens Type		Motorized
Maximum Aperture		F/1.4
Mount		Ø14
FOV	Horizontal	96° ~ 46°
	Vertical	70° ~ 35°
	Diagonal	128˚~ 58˚
Operation	Focus	Auto / Manual
	Zoom	4.3x
	Iris	DC
IR LED Quantity		4 IR LEDs
Max. IR Distance		70 m (230 ft)

DORI		Detect	Observe	Recognize	Identify
Lens	2.8-12 mm (W)	86 m (282.1 ft)	34 m (111.5 ft)	17 m (55.7 ft)	9 m (29.5 ft)
	2.8-12 mm (T)	190 m (623.3 ft)	76 m (249.3 ft)	38 m (124.6 ft)	19 m (62.3 ft)

Operation		
Video Compression		H.265, H.265+, H.264, H.264+, MJPEG
Video Streaming		Five streams
Video Resolution	Main Stream	4000 x 3000 (Default), 3840 x 2160, 3200 x 1800, 2688 x 1520, 1920 x 1080
	Sub Stream	1920 x 1080, 1280 x 960 (Default), 1280 x 720, 704 x 576,704 x 480, 640 x 360
	Third Stream	1280 x 720 (Default), 704 x 576, 704 x 480, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 × 240
	Fourth Stream	704 x 480 (Default), 704 x 576, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 × 240
	Fifth Stream	704 x 480 (Default), 704 x 576, 640 x 480, 640 x 360, 480 x 240, 352 x 288, 352 × 240
Frame Rate		30 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 960 / 1280 x 720 / 704 x 480 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 240 (60 Hz)
		25 fps at 4000 x 3000 / 3840 x 2160 / 3200 x 1800 / 2688 x 1520 / 1920 x 1080 / 1280 x 960 / 1280 x 720 / 704 x 576 / 640 x 480 / 640 x 360 / 480 x 240 / 352 x 288 (50 Hz)
		* The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
Maximum Throughput		80 Mbps
Maximum Streams * When the total bitrate is within the maximum throughput		10
Video Analytics		Motion Detection, Video Exception Detection (Abnormal Color Detection, Scene Change, Video Blur), Object Abandoned/Missing Detection
Smart Alarm		Audio Exception, Cable Disconnection, IP Address Conflict, SD Card Error, SD Card Full
Image Setting		Brightness, Contrast, Hue, Saturation, WDR, Sharpness, Defog, 3D Noise Reduction, BLC, Antiflicker, White Balance, Shutter, Gain, Image Orientation (Flip, Mirror, 0°, 90°, 180°, 270° – including Corridor format).
Audio Compression		G.711
Audio Support		Two-way audio (external speaker required)

| Digital I/O | Input | 1 Input, dry contact, NO / NC |
| | Output | 1 Relay Output (1A 30V DC / 0.3A 125V AC) |

Deep Learning Function

AI Analytics		Face Event: Face Detection
		Smart Event:
		- Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Target Counting, Heat Map, Video Metadata
		- Loitering Detection, Illegal Parking Detection
		*Face events and smart events cannot be enabled at the same time.
		*A maximum of 2 smart detection functions are suggested at a time to ensure comprehensive detection results and the optimized performance by the camera.
		*Face Event and Smart Event can only be enabled one at a time.
Video Metadata	People	Gender, Age, Top / Bottom (Type, Color), Accessories (Hat, Bag, Face Mask, Glasses)
	Vehicle	Type, Color, Brand, Model
	Non-Motor Vehicle	Type

Network

| Interface | 10/100 Ethernet |
| Protocol | 802.1x, DDNS, DHCP, FTP, HTTP POST, HTTP, HTTPS, IPv4, IPv6, NTP, ONVIF (Profile G, S, T, M), PPPoE, QoS, RTCP, RTMP, RTP, RTSP, SMTP, SNMP, UDP, UPnP |

Mechanical

Camera Angle Adjustment	Pan	0 ~ 360°
	Tilt	0 ~ 90°
	Rotate	0 ~ 360°
Connectors	Power	DC jack, PoE	
	Ethernet	RJ-45	
	Audio	Built-in microphone	Yes
		External microphone required	Yes (Audio jack, 3.5 mm)
		Built-in speaker	No
		External speaker required	Yes (Audio jack, 3.5 mm)
		* For devices with a microphone or speaker, choose either the built-in or external option.	
		* If equipped with an Audio In port, it only supports microphones with power supply.	
	Video Output	CVBS output (BNC connector x 1)	
	Digital I/O	4-pin terminal block pitch 3.5 mm (0.14 in)	
	Local Storage	microSD card slot (SD / SDHC / SDXC), up to 256 GB	

General

Operating Temperature	-30 ~ 60°C (-22 ~ 140°F)
Humidity	0 ~ 95% (no condensation)
Power Source	12V DC, 1.5A / PoE (IEEE 802.3af)
Max. Power Consumption	12 W
Dimensions	272.3 x 94.9 x 88.9 mm (10.72 x 3.73 x 3.5 in)
Weight	1.12 kg (2.47 lb)
Ingress Protection	IP67
Vandal Resistance	IK10 for metal casing
Certification	CE, FCC, RoHS, UKCA compliant

Web Interface

Installation Management	Web-based configuration
Maintenance	Firmware upgrade through Web Browser or Utility
Access from Web Browser	Live View, Playback, Video Recording, Image Quality, Bandwidth Control, Image Snapshot, Digital Zoom, Text Overlay, Image Masking, Intelligent Mark
Language	Chinese Traditional, Czech, Dutch, English, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Spanish (Latin America), Turkish

Software Applications

| Software Supported | GV-VMS (V17.4.8 with Patch or later, V18.3.4 with Patch or later), GV-Edge Recording Manager (V2.2.8 or later), GV-Control Center (V4.2.1 or later), GV-Recording Server (V2.1.1 with Patch or later) |
| Smart Device Access | GV-Eye for iOS and Android (V3.2.0 or later) |

Live Viewing	Web Browser (Edge 120.0.2210.121, Chrome 120.0.6099.200, Firefox 121.0, Safari 11), Mobile App

Note:
1. Industrial-grade microSD cards are recommended to avoid event recording writing failure.
2. All specifications are subject to change without notice.

Packing List

1. GV-GBL12811
2. Hex Key
3. Screw Kit
4. Drill Template Paster
5. CVBS & DC IN Cables
6. Download Guide
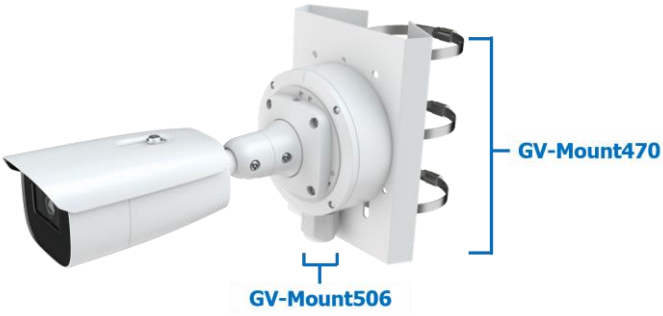
Accessories

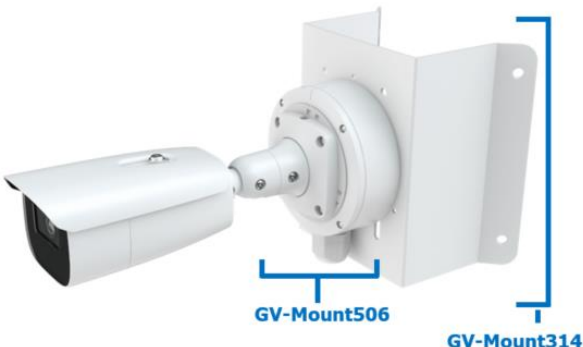| Model No.	Name		Details
GV-Mount470 (must be used with Mount506)	Pole Mount Bracket		Dimensions: 163.3 x 54.5 x 215 mm (6.43 x 2.15 x 8.46 in) Weight: 1.10 kg (2.43 lb)
GV-Mount314 (must be used with Mount506)	Corner Mount Bracket		Dimensions: 215 x 121.4 x 215 mm (8.46 x 4.78 x 8.46 in) Weight: 2.05 kg (4.52 lb)
GV-Mount506	Junction Box		Dimensions: 139.3 x 171.6 x 50 mm (5.48 x 6.76 x 1.97 in) Weight: 0.51 kg (1.13 lb)
GV-PA191	PoE Adapter		GV-PA191 is a Power over Ethernet (PoE) adapter designed to provide power to the IP device through a single Ethernet cable.
GV-PA301	Gigabit PoE Adapter		GV-PA301 is a Gigabit Power over Ethernet (PoE) adapter.
GV-POE Switch			GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.
Power Adapter			Contact our sales representatives for the countries and areas supported.

Dimensions
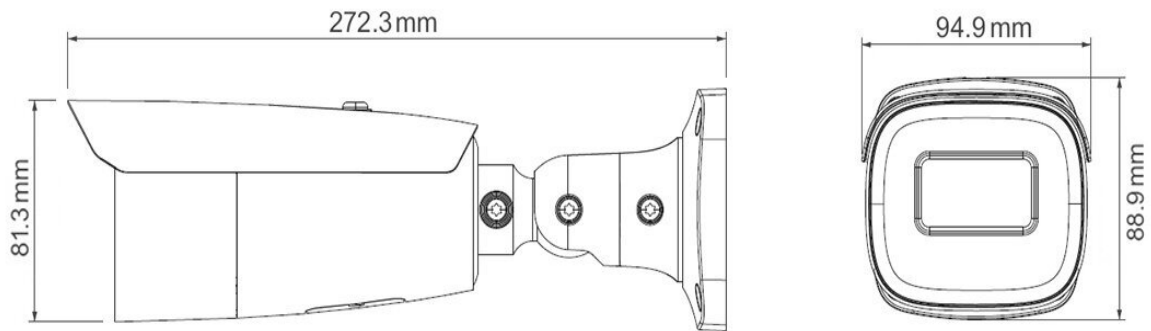
Mounting Type

Junction Box Mount	Junction Box Mount	Pole Bracket Mount
GV-Mount506	GV-Mount506	GV-Mount470

Junction Box Mount	Corner Mount Bracket
GV-Mount506	GV-Mount314